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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,681	09/22/2003	Noriyasu Sakai	14225-022001 / F1030476US	9392
26211	7590 02/03/2006		EXAM	INER
FISH & RICHARDSON P.C. P.O. BOX 1022			GEYER, SCOTT B	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			2812	
			DATE MAIL ED: 02/02/2004	DATE MAILED: 02/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	S SET TO EXPIRE 3 MONTH(SE OF THIS COMMUNICATION a). In no event, however, may a reply be timapply and will expire SIX (6) MONTHS from the second sec	S) OR THIRTY (30) DAYS, I. ely filed			
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earned patent term adjustment. Good or of N 1.104(0).	nuse the application to become ABANDONEI ate of this communication, even if timely filed,	O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>23 January</u> This action is FINAL . 2b)⊠ This action is application is in condition for allowance closed in accordance with the practice under Explain the Explain the practice under Explain the Explai	ction is non-final. e except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 1-3,5,6 and 9-14 is/are pending in the at 4a) Of the above claim(s) is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1,2 and 11-13 is/are rejected. 7) Claim(s) 3,5,6,9,10 and 14 is/are objected to. 8) Claim(s) are subject to restriction and/or expressions. 	from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 11 July 2005 is/are: a) ☑ Applicant may not request that any objection to the dra Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Exam	awing(s) be held in abeyance. Seen is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	nte			

DETAILED ACTION

Response to Amendment

The affidavit filed on January 23, 2006 under 37 CFR 1.131 is sufficient to overcome the Hayashida et al. (6,767,767 B2) reference.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 2 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takehara et al. (6,358,776 B1) in view of Lee et al. (5,924,190).

As to claim 1, Takehara et al. teach a method of manufacturing circuit devices, as shown in figures 3A-4B. Conductive patterns 5 are formed on a planar body 1. Circuit elements 2 are mounted on the conductive patterns. The circuit elements 2 are sealed in resin 8, using a mold having upper and lower portions 20, 21. The lower mold portion 21 is in contact with the planar body through electrodes 19. After molding, the mounting portions (with circuit elements attached) are separated. Takehara et al. do not teach the lower mold having an air vent. However, Lee et al. teach a similar chip molding method wherein both the upper mold and the lower mold halves have air vents (see figures 1, 3, 6,11 or 14). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Takehara et al. with a mold having air vents in the upper and lower mold portions, as taught by Lee et al. so as to allow for total air escape from both the top and bottom surfaces of the article being

molded, which would also reduce or eliminate unwanted air pockets (see also Lee et al., col. 1, lines 65-67, continued to col. 2, lines 1-4).

As to **claim 2**, Takehara et al. teach blocks formed by a plurality of mounting portions arranged in a matrix form, and resin sealing is performed to cover all this chips that are arranged in matrix form on the blocks (see figures 1A-2A).

As to **claim 11**, Lee et al. teach an air vent "striding" over a peripheral pad of the cavity, and the air vent extends from inside the cavity to outside the cavity, as can be plainly seen in figures 1, 3, 6,11 or 14.

As to **claims 12 and 13**, Lee et al. teach bringing the back face of the planar body into contact with the lower mold which has air vents, and the planar body contacts at least one of the air vents (see figure 1) and air is released through the air vents (see col. 1, lines 65-67, continued to col. 2, lines 1-4).

Allowable Subject Matter

Claims 3, 5, 9 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1-3, 5, 6 and 9-14 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

This action is non-final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Geyer whose telephone number is (571) 272-1958. The examiner can normally be reached on weekdays, between 10:00am - 6:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

1/31/96

Scott Geyer

Primary Examiner, AU 2812

January 31, 2006